

# Make a rainbow

## Brief summary:

In this experiment you will try to make a rainbow using a glass of water and some sunshine.

## You will need:

- A glass of water (about three quarters full)
- White paper
- A sunny day

## What to do:

**Step 1.** Take the glass of water and paper to a part of the room with sunlight (near a window is good).

**Step 2.** Hold the glass of water (being careful not to spill it) above the paper and watch as sunlight passes through the glass of water, refracts (bends) and forms a rainbow of colors on your sheet of paper.

**Step 3.** Try holding the glass of water at different heights and angles to see if it has a different effect.

## Take it further:

Try adding some food colouring to the water: can you still make a rainbow? What does it look like?

## Big questions:

- What makes the colours in a rainbow?
- Rainbows are called a “meteorological phenomenon”: what does this mean?

